

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 09/25/2020

Reviewed on 09/25/2020

* 1 Identification

· **Product Identifier**

· **Trade Name:** MycoPerm-BLUE

· **Product Number:**

Cat# Description
753 12ml bottle

· **Relevant identified uses of the substance or mixture and uses advised against:**

· **Product Description:** No further relevant information available.

· **Details of the Supplier of the Safety Data Sheet:**

· **Manufacturer/Supplier:**

Scientific Device Laboratory
411 Jarvis Avenue
Des Plaines, IL 60018
847-803-9495

· **Emergency telephone number:**

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident

Call CHEMTREC Day or Night

Within USA and Canada: 1-800-424-9300 or Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

2 Hazard(s) Identification

· **Classification of the substance or mixture:**



Skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.

Acute Tox. 3 H311 Toxic in contact with skin.

Acute Tox. 3 H331 Toxic if inhaled.



Health hazard

Muta. 2 H341 Suspected of causing genetic defects.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

Flam. Liq. 4 H227 Combustible liquid.

· **Label elements:**

· **Hazard pictograms:**



· **Signal word:** Danger

· **Hazard-determining components of labeling:**

Phenol

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Lactic Acid

Hazard statements:

- H227 Combustible liquid.
- H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.
- H314 Causes severe skin burns and eye damage.
- H341 Suspected of causing genetic defects.
- H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from flames and hot surfaces. – No smoking.
- P260 Do not breathe dusts or mists.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 If swallowed: Immediately call a poison center/doctor.
- P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
- P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
- P302+P352 If on skin: Wash with plenty of water.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P311 Call a poison center/doctor.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P312 Call a poison center/doctor if you feel unwell.
- P314 Get medical advice/attention if you feel unwell.
- P361+P364 Take off immediately all contaminated clothing and wash it before reuse.
- P363 Wash contaminated clothing before reuse.
- P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values.

20.7 % of the mixture consists of component(s) of unknown toxicity.

Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

NFPA ratings (scale 0 - 4)

 Health = 3
 Fire = 2
 Reactivity = 0

HMIS-ratings (scale 0 - 4)

 Health = *3
 Fire = 2
 Physical Hazard = 0

Hazard(s) not otherwise classified (HNOC): None known

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3 Composition/Information on Ingredients

- **Chemical characterization: Substance**
- **Description:** Mixture of substances listed below with non-hazardous additions.

· Dangerous Components:	
CAS: 108-95-2 RTECS: SJ 3325000	Phenol ☠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ☠ Muta. 2, H341; STOT RE 2, H373; ☠ Skin Corr. 1B, H314
CAS: 50-21-5 RTECS: OD 2800000	Lactic Acid ☠ Acute Tox. 3, H331; ☠ Eye Dam. 1, H318; ☠ Skin Irrit. 2, H315

- **Additional information:**
The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

- **Description of first aid measures**
- **General information:**
Involve doctor immediately.
Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.
Immediately remove any clothing soiled by the product.
Remove breathing apparatus only after contaminated clothing have been completely removed.
In case of irregular breathing or respiratory arrest provide artificial respiration.
- **After inhalation:**
Supply fresh air or oxygen; call for doctor.
In case of unconsciousness place patient stably in the side position for transportation.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
Immediate medical treatment is necessary. Failure to treat burns can prevent wounds from healing.
- **After eye contact:**
Get immediate medical attention.
Have eyes examined and tested by medical personnel.
Rinse opened eye for several minutes under running water. Then consult a doctor.
If easy to do so, remove contact lenses if worn.
- **After swallowing:**
Do not induce vomiting; immediately call for medical help.
Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**
No further relevant information available.

5 Fire-Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** No further relevant information.
- **Special hazards arising from the substance or mixture:**
Combustible liquid. Vapors can travel to a source of ignition and flash back.
Explosive mixtures may occur at temperatures at or above flashpoint.

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- **Advice for firefighters**
- **Special protective equipment for firefighters:**
 Mouth respiratory protective device.
 As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:**
 Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Dilute with plenty of water.
- **Methods and material for containment and cleaning up:**
 Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).
 Use neutralizing agent.
 Dispose of contaminated material as waste according to section 13.
 Ensure adequate ventilation.
 Dispose of the collected material according to regulations.
- **Reference to other sections:**
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· PAC-1:		
108-95-2	Phenol	15 ppm
9002-89-5	Poly(vinyl alcohol)	24 mg/m ³
· PAC-2:		
108-95-2	Phenol	23 ppm
9002-89-5	Poly(vinyl alcohol)	270 mg/m ³
· PAC-3:		
108-95-2	Phenol	200 ppm
9002-89-5	Poly(vinyl alcohol)	1,600 mg/m ³

7 Handling and Storage

- **Handling**
- **Precautions for safe handling:**
 Ensure good ventilation/exhaustion at the workplace.
 Open and handle receptacle with care.
 Prevent formation of aerosols.
- **Information about protection against explosions and fires:** Keep protective respiratory device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store in the original container.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s):** No further relevant information available.

8 Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** No further data; see section 7.

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- **Control parameters:**

- **Components with occupational exposure limits:**

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituents have no known exposure limits.

108-95-2 Phenol	
PEL	Long-term value: 19 mg/m ³ , 5 ppm Skin
REL	Long-term value: 19 mg/m ³ , 5 ppm Ceiling limit value: 60* mg/m ³ , 15.6* ppm *15-min; Skin
TLV	Long-term value: 19 mg/m ³ , 5 ppm Skin; BEI

- **Ingredients with biological limit values:**

108-95-2 Phenol	
BEI	250 mg/g creatinine urine end of shift Phenol with hydrolysis (background, nonspecific)

- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.

- **Exposure controls:**

- **Personal protective equipment**

- **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

- **Breathing equipment:** Not required.

- **Protection of hands:**

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material:**

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

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 · **Eye protection:**


Tightly sealed goggles

 · **Body protection:**


Protective work clothing

 · **Limitation and supervision of exposure into the environment:** None

9 Physical and Chemical Properties

 · **Information on basic physical and chemical properties**

 · **General Information**

 · **Appearance:**

 Form: Thick liquid

 Color: Dark blue

 · **Odor:** Odorless

 · **Odor threshold:** Not determined.

 · **pH-value:** Not available

 · **Change in condition**

 Melting point/Melting range: Not determined.

 Boiling point/Boiling range: ≥100 °C (≥212 °F)

 · **Flash point:** ≥82 °C (≥179.6 °F)

 · **Flammability (solid, gaseous):** Not applicable.

 · **Ignition temperature:** Not applicable

 · **Decomposition temperature:** Not determined.

 · **Auto igniting:** Product is not self-igniting.

 · **Danger of explosion:** Not determined.

 · **Explosion limits:**

 Lower: Not determined.

 Upper: Not determined.

 · **Vapor pressure @ 20 °C (68 °F):** ≤23 hPa (≤17.3 mm Hg)

 · **Density @ 20 °C (68 °F):** 1.02 g/cm³ (8.5119 lbs/gal)

 · **Relative density:** Not determined.

 · **Vapor density:** Not determined.

 · **Evaporation rate:** Not determined.

 · **Solubility in / Miscibility with:**

 Water: Fully miscible.

 · **Partition coefficient (n-octanol/water):** Not determined.

 · **Viscosity:**

 Dynamic: Not determined.

 Kinematic: Not determined.

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- **Solvent content:**
- **Organic solvents:** 22.7 %
- **VOC content:** 22.74 %
- **Other information:** No further relevant information available.

10 Stability and Reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** Heat, flame and ignition sources.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological Information

- **Information on toxicological effects:**
- **Acute toxicity:**

 · **LD/LC50 values that are relevant for classification:**

108-95-2 Phenol		
Oral	LD50	317 mg/kg (Rat)
Dermal	LD50	850 mg/kg (Rabbit)
50-21-5 Lactic Acid		
Oral	LD50	3,543 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rabbit)
Inhalative	LC50/4 h	7.94 mg/l (Rat)

- **Primary irritant effect:**
- **On the skin:** Strong caustic effect on skin and mucous membranes.
- **On the eye:**
 Strong irritant with the danger of severe eye injury.
 Corrosive effect.
 Causes serious eye irritation.
- **Additional toxicological information:**
 The product shows the following dangers according to internally approved calculation methods for preparations:
 Toxic
 Corrosive
 Irritant
 Swallowing will lead to a corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.
- **Carcinogenic categories:**
- **IARC (International Agency for Research on Cancer):**
 Group 1 - Carcinogenic to humans
 Group 2A - Probably carcinogenic to humans
 Group 2B - Possibly carcinogenic to humans
 Group 3 - Not classifiable as to its carcinogenicity to humans
 Group 4 - Probably not carcinogenic to humans

108-95-2	Phenol	3
9002-89-5	Poly(vinyl alcohol)	3

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· NTP (National Toxicology Program):
None of the ingredients are listed.
· OSHA-Ca (Occupational Safety & Health Administration):
None of the ingredients are listed.

12 Ecological Information

 · **Toxicity:**

· Aquatic toxicity:
108-95-2 Phenol
EC50 4-7 mg/l (Daphnia)
50-21-5 Lactic Acid
EC50 130 mg/l (Daphnia)

 · **Persistence and degradability:** No further relevant information available.

 · **Behavior in environmental systems:**

 · **Bioaccumulative potential:** No further relevant information available.

 · **Mobility in soil:** No further relevant information available.

 · **Additional ecological information:**

 · **General notes:**

Do not allow product to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even small quantities leak into the ground.

 · **Results of PBT and vPvB assessment:**

 · **PBT:** Not applicable.

 · **vPvB:** Not applicable.

 · **Other adverse effects:** No further relevant information available.

13 Disposal Considerations

 · **Waste treatment methods**

 · **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Observe all federal, state and local environmental regulations when disposing of this material.

 · **Uncleaned packaging**

 · **Recommendation:** Disposal must be made according to official regulations.

 · **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport Information

 · **UN-Number:**

 · **DOT, ADR/ADN, IMDG, IATA**

UN2821

 · **UN proper shipping name:**

 · **DOT**

Phenol solutions mixture

 · **ADR/ADN**

UN2821 PHENOL SOLUTION mixture

 · **IMDG, IATA**

PHENOL SOLUTION mixture

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 · **Transport hazard class(es):**

 · **DOT**

 · **Class:** 6.1 Toxic substances
 · **Label:** 6.1

 · **ADR/ADN**

 · **Class:** 6.1 (T1) Toxic substances
 · **Label:** 6.1

 · **IMDG, IATA**

 · **Class:** 6.1 Toxic substances
 · **Label:** 6.1
 · **Packing group:** III
 · **DOT, ADR/ADN, IMDG, IATA** III
 · **Environmental hazards:** Not applicable.
 · **Special precautions for user:** Warning: Toxic substances
 · **Hazard identification number (Kemler code):** 60
 · **EMS Number:** F-A,S-A
 · **Stowage Category** A
 · **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
 · **Transport/Additional information:**
 · **DOT**
 · **Quantity limitations:** On passenger aircraft/rail: 60 L
 On cargo aircraft only: 220 L

 · **ADR/ADN**

 · **Excepted quantities (EQ):** Code: E1
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 1000 ml

 · **IMDG**

 · **Limited quantities (LQ):** 5L
 · **Excepted quantities (EQ):** Code: E1
 Maximum net quantity per inner packaging: 30 ml
 Maximum net quantity per outer packaging: 1000 ml
 · **UN "Model Regulation":** UN 2821 PHENOL SOLUTION MIXTURE, 6.1, III

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15 Regulatory Information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **SARA (Superfund Amendments and Reauthorization):**

- **Section 355 (extremely hazardous substances):**

108-95-2	Phenol
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- **Section 313 (Specific toxic chemical listings):**

108-95-2	Phenol
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- **TSCA (Toxic Substances Control Act):**

7732-18-5	Water, distilled water, deionized water	ACTIVE
108-95-2	Phenol	ACTIVE
50-21-5	Lactic Acid	ACTIVE
9002-89-5	Poly(vinyl alcohol)	ACTIVE

- **Hazardous Air Pollutants**

108-95-2	Phenol
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- **California Proposition 65:**

- **Chemicals known to cause cancer:**

None of the ingredients are listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

- **New Jersey Right-to-Know List:**

108-95-2	Phenol
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- **New Jersey Special Hazardous Substance List:**

108-95-2	Phenol	MU, F2
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- **Pennsylvania Right-to-Know List:**

108-95-2	Phenol
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- **Pennsylvania Special Hazardous Substance List:**

108-95-2	Phenol	E
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- **Carcinogenic categories:**

- **EPA (Environmental Protection Agency):**

108-95-2	Phenol	D, I
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- **TLV (Threshold Limit Value established by ACGIH):**

108-95-2	Phenol	A4
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- **NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

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Hazard pictograms:

Signal word: Danger

Hazard-determining components of labeling:

 Phenol
 Lactic Acid

Hazard statements:

H227 Combustible liquid.
 H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.
 H314 Causes severe skin burns and eye damage.
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 P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
 P302+P352 If on skin: Wash with plenty of water.
 P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P311 Call a poison center/doctor.
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 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P312 Call a poison center/doctor if you feel unwell.
 P314 Get medical advice/attention if you feel unwell.
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 P363 Wash contaminated clothing before reuse.
 P370+P378 In case of fire: Use for extinction: CO₂, powder or water spray.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations:

None of the ingredients are listed.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

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Trade Name: MycoPerm-BLUE· **Date of last revision/ revision number:** 09/25/2020 / 2· **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety & Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flam. Liq. 4: Flammable liquids – Category 4
Acute Tox. 3: Acute toxicity – Category 3
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Muta. 2: Germ cell mutagenicity – Category 2
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

· *** Data compared to the previous version altered.**SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106